

PROVIDER OF

Apps for Process Simulation

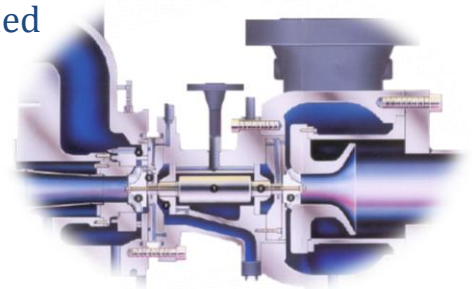
BPT software tools enhance the capabilities of your process simulation tools to improve your engineers efficiency and accuracy

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BPT-TEX™

Rigorous Turbo Expander design and rating model as part of your simulator

- Design and evaluate systems and concepts with optimal turbo expander performance
- Off design performance prediction for installed turbo expander machinery
- Assess transient behaviour during startup, shutdown, upsets and capacity changes.
- Verify protection and control structure performance
- Reduce time spent and save money on external experts



The bottom line

Anticipate all operating cases during design and know the capability of your turbo expanders in operation, maximizing plant performance. This knowledge is essential for gas dew pointing plants, NGL, LNG liquefaction and refrigeration systems.

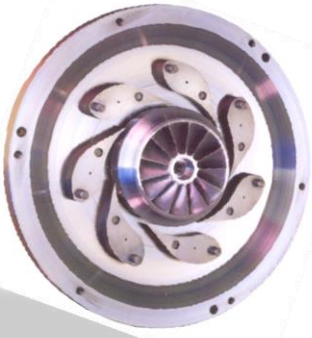
BPT TEX™ assists realistic and cost effective plant judgements in a minute.

BPT was founded 1998 in Norway. We develop and provide Apps for Process Simulation™. We deliver independent and trusted third-party specialist consultancy services to the upstream oil & gas industry, combining experience with leading edge simulation tools using our Apps.

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What is BPT-TEX™?

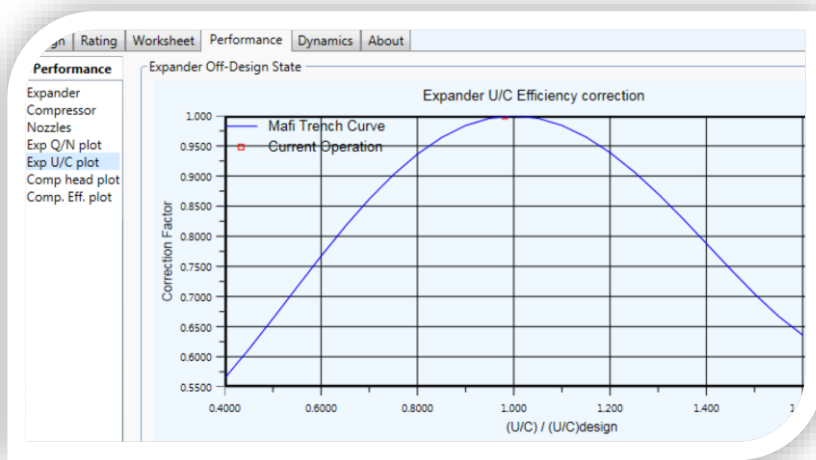
BPT-TEX™ is available as an extension to industry leading process simulation software. BPT-TEX™ uses literature data and methods provided by Mafi-Trench and Atlas Copco to model the off-design behaviour of the expander and compressor.

Steady State Design and Rating

In design mode BPT-TEX™ provides turbo expander design parameters and preliminary sizing (wheel diameter and speed). This information permits a selection of the best design point.

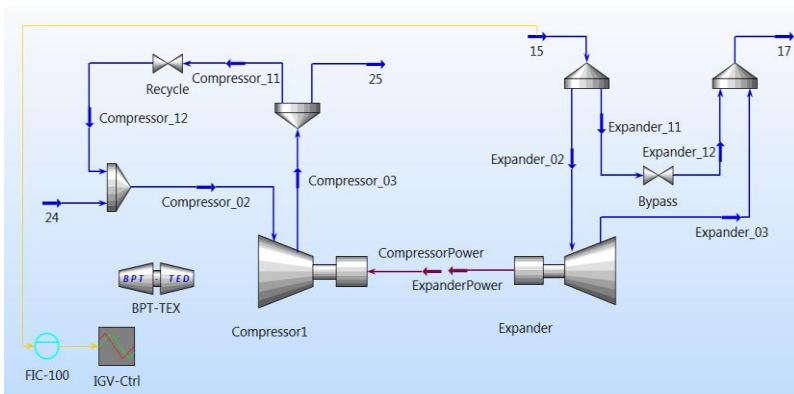
The rating (off-design) capability calculates what cases will work and what cases won't work or will require modified operating conditions.

BPT-TEX™ can be tuned to match an existing turbo expander operation and subsequently be used to explore operation under future operating conditions.



Off design status of expander with respect to U/C

Transient modelling



In transient operation BPT-TEX™ works together with the expander model of the simulator to overcome its deficiencies. Expander capacity or suction pressure can be controlled using the IGV position. Alternatively other control elements can be used to control the inlet to the expander.

References

Statoil - Oseberg Field Center



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